PATENT COOPERATION TREATY

·INTERNATIONAL S	EARCHING AUTH	ORITY				
To: MARINA T. LARSON MARINA LARSON & ASSOCIATES, LLC PO BOX 4928			PCT			
DILLON, CO 80435		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
		(PCT Rule 43bis.1)				
·			Date of mailing (day/month/year)	28 NOV 2006		
Applicant's or agent'	s file reference		FOR FURTHER ACTION			
MSK. P-082WO				See paragraph 2 below		
International applicat	ion No.	International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/IB06/51199	u ic ii anco	18 April 2006 (18.04.20				
		or both national classificat				
IPC: A61K 39/3 USPC: 424/130.1;5	95(2006.01), 31/70 514/44	(2006.1);A01N 43/04(20	06.01)			
Applicant						
SLOAN-KETTERIN	G INSTITUTE FOR	CANCER RESEARCH		•		
1. This opinion cont	tains indications rela	ting to the following item	s:			
Box No. I	Basis of the	opinion				
Box No. I	I Priority					
Box No. I	II Non-establis	hment of opinion with reg	gard to novelty, inver	ntive step and industrial applicability		
Box No. I	V Lack of unit	Lack of unity of invention				
Box No. V		Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. V	I Certain docu	Certain documents cited				
Box No. V	II Certain defe	Certain defects in the international application				
Box No. V	'III Certain obse	Certain observations on the international application				
2. FURTHER AC	TION					
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis (b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
No control of the state of the						
Name and mailing add Mail Stop PCT Commissioner P.O. Box 1450	, Attn: ISA/US	Date of completion 12 October 2006	· ! L	Authorized officer Peter/Reddig		
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201				Telephone No. (571) 272-9031		

Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/IB06/51199	

Box N	o. I Basis of this opinion
1. With	regard to the language, this opinion has been established on the basis of: the international application in the language in which it was filed a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With inven	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	on paper .
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
. [_]	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
. Additic	nal comments:
•	
n D(~r/re	SA/237(Box No. I) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB06/51199

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be				
industrially applicable have not been examined in respect of:				
the entire int	ernational application			
claims Nos.				
because:	•			
the said interation	national application, or the said claim Nos relate to the following subject matter which does not require nal search (specify):			
•				
the description meaningful of	on, claims or drawings (indicate particular elements below) or said claims Nos. 6 and 7 are so unclear that no opinion could be formed (specify):			
Claims 6 and	7 are improper multiple dependent claims.			
the claims, or	said claims Nos are so inadequately supported by the description that no meaningful opinion could be			
formed (spec				
	- · · · · · · · · · · · · · · · · · · ·			
	·			
no internation	nal search report has been established for said claims Nos.			
a meaningf prescribed t	in opinion could not be formed without the sequence listing, the applicant did not, within the ime limit:			
Adm	sh a sequence listing on paper complying with the standard provided for in Annex C of the inistrative Instructions, and such listing was not available to the International Searching Authority form and manner acceptable to it.			
the A	sh a sequence listing in electronic form complying with the standard provided for in Annex C of Administrative Instructions, and such listing was not available to the International Searching ority in a form and manner acceptable to it.			
pay the under	he required late furnishing fee for the furnishing of a sequence listing in response to an invitation Rules 13ter.1(a) or (b).			
not, within t requirements	l opinion could not be formed without the tables related to the sequence listings; the applicant did he prescribed time limit, furnish such tables in electronic form complying with the technical provided for in Annex C-bis of the Administrative Instructions, and such tables were not available ational Searching Authority in a form and manner acceptable to it.			
the tables rela	ated to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply nical requirements provided for in Annex C-bis of the Administrative Instructions.			
	ental Box for further details.			
on PCT/ICA/227 (Dov.)	MY (A - 11 2005)			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB06/51199

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement		
Novelty (N)	Claims 5 and 11	YES
	Claims <u>1-4,8-10 and 12</u>	NO
Inventive step (IS)	Claims 5 and 11	YES
	Claims <u>1-4,8-10 and 12</u>	NO
Industrial applicability (IA)	Claims <u>1-5 and 8-12</u>	YES
	Claims NONE	NO

2. Citations and explanations:

Claims 1-4, 8-10, and 12 lack novelty under PCT Article 33(2) as being anticipated by US Pat App. Pub 2003/0224993 (Land et al.) 04 December 2003 (04.12.2003).

Land et al. teach a method of reducing the amount of active a6b4 integrin in cancer cells in a patient by the administration of a therapeutic agent targeted to a6b4 that kills the cancer cells, see para. 0023, 0312-0340, claims 1-16, 24-40, 64-66. Land et al. teach administering the agents to humans in compositions suitable for human administration, see para 0261-0262, and 0340. Land et al. teach that the anti- a6b4 integrin therapeutic agent is an antibody, para 0049-0078. Land et al. teach that the anti-a6b4 integrin therapeutic agent is an antisense oligonucleotide, see para 0048, 0097-0100, claims 27 and 29. Land et al. teach treating breast, prostate, and cervical cancer cells in vivo, see para 0329 and 0340. Land et al. teach administering the ErbB2 inhibitor Herceptin with the anti-a6b4 integrin therapeutic agent, see para 0313-0314. Land et al. teach that the anti-a6b4 integrin therapeutic agents are used in the preparation of pharmaceutical compositions, see para 0255, 0256, and 0282-0302.

Claims 1 and 3 lack novelty under PCT Article 33(2) as being anticipated by Dajee et al. Nature. February 2003. Vol. 421, pages 639-643.

Dajee et al teach a method of inhibition of tumorigenesis in a mouse tumor model in cells expressing a6b4 integrin by treating with antibodies to a6b4 integrin, see p 640, right column, and Fig. 4C and 4D.

Claims 1-12 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/ISA/237 (Box No. V) (April 2005)